

FIG. 1

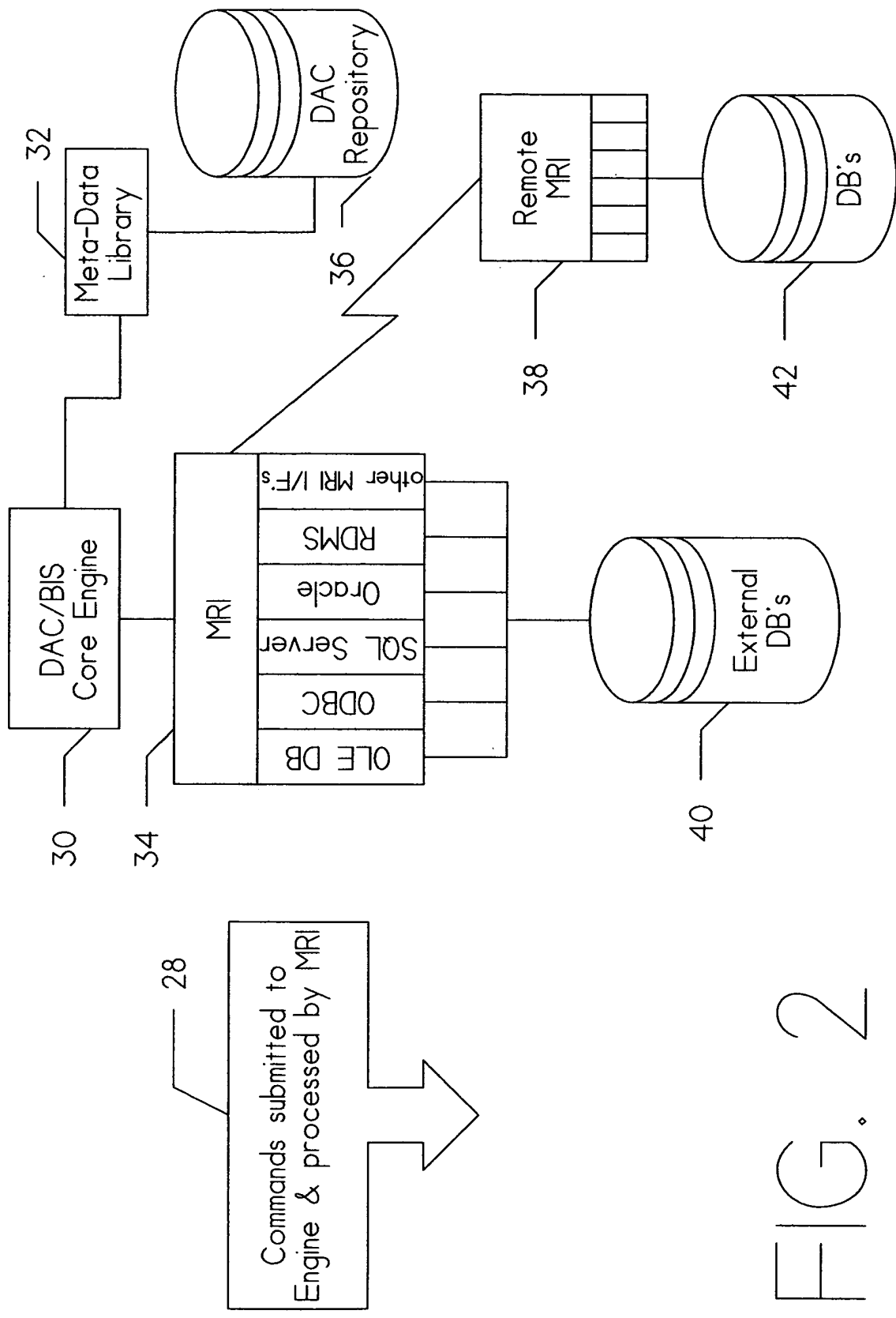


FIG. 2

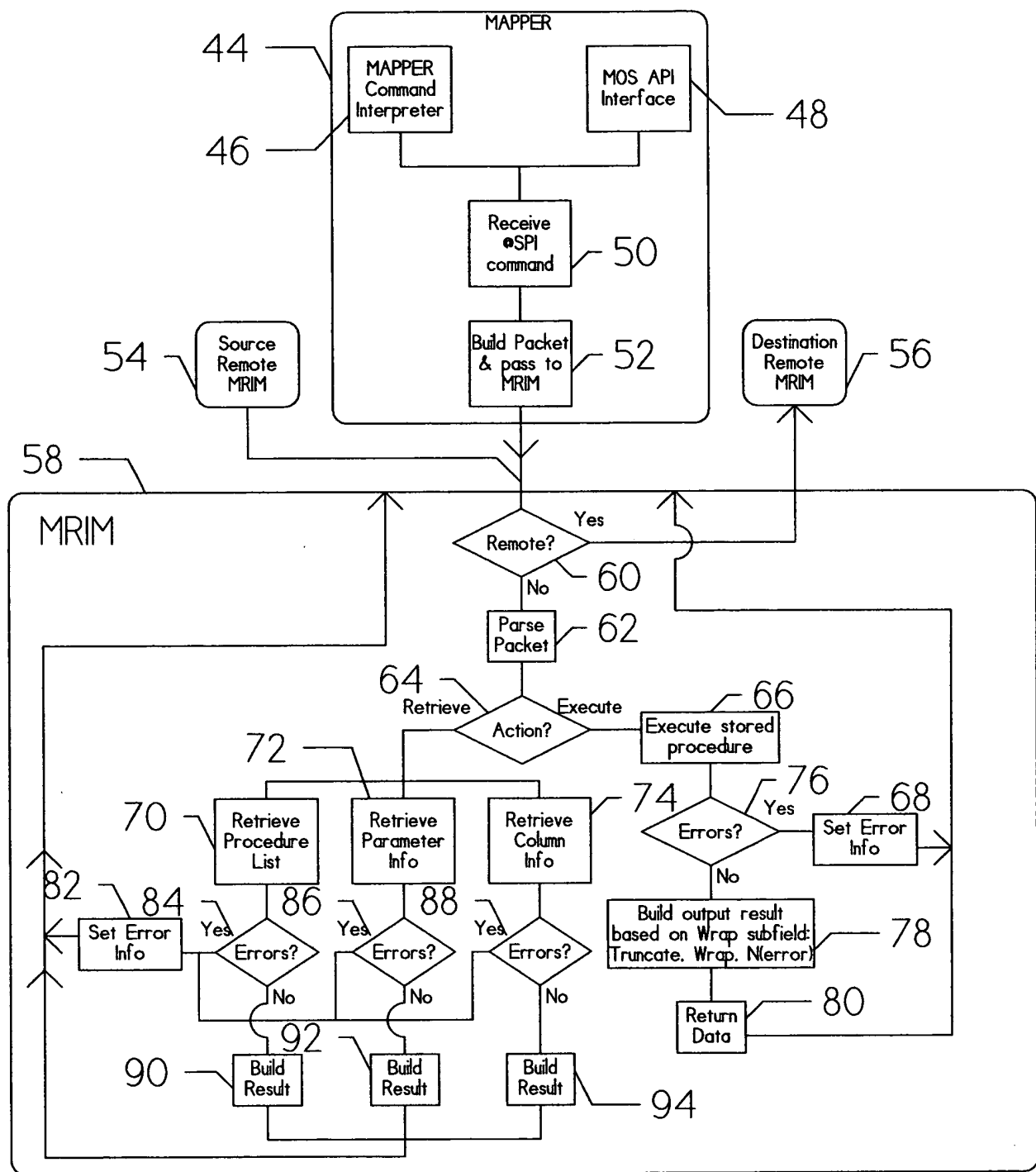


FIG. 3

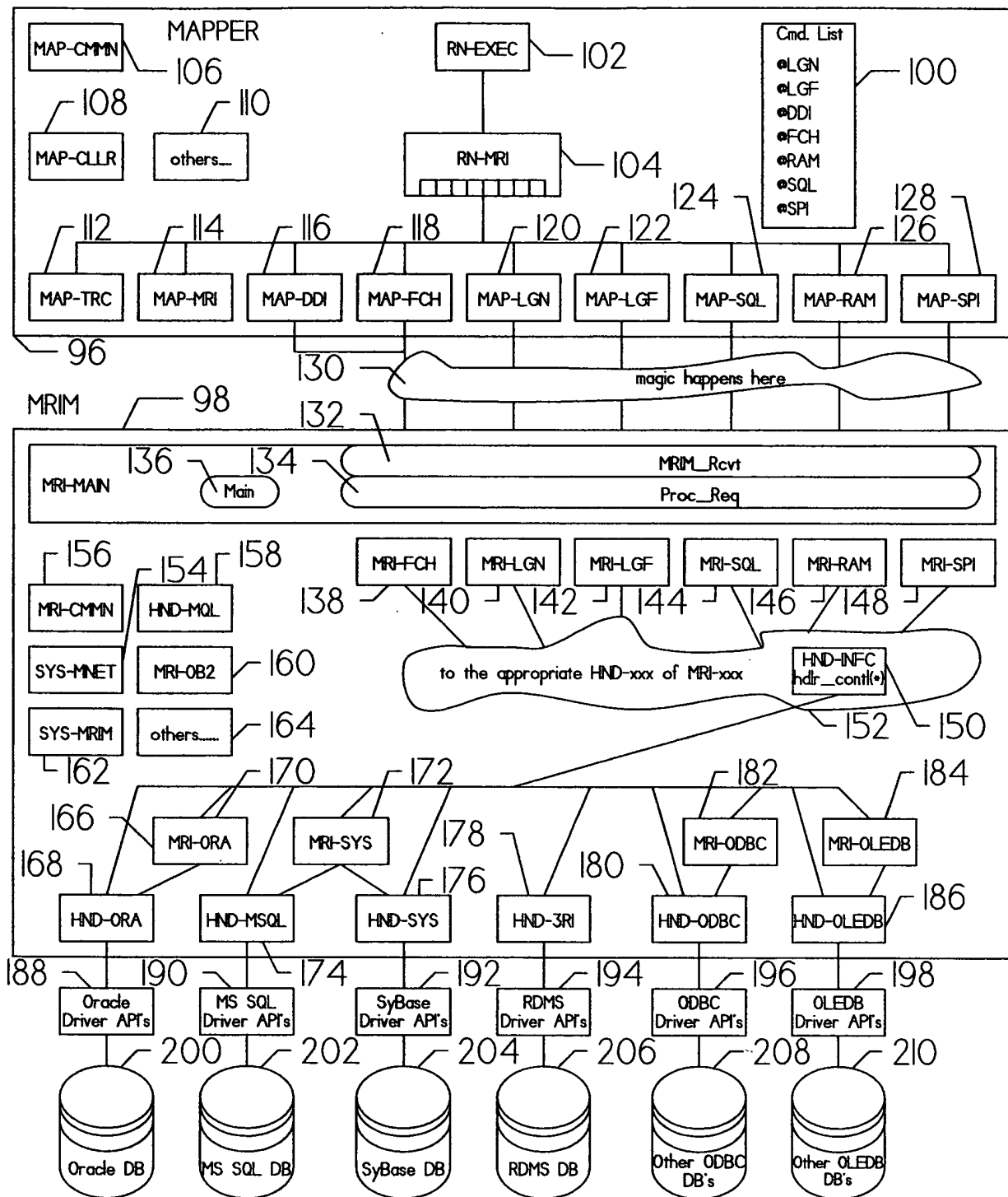


FIG. 4

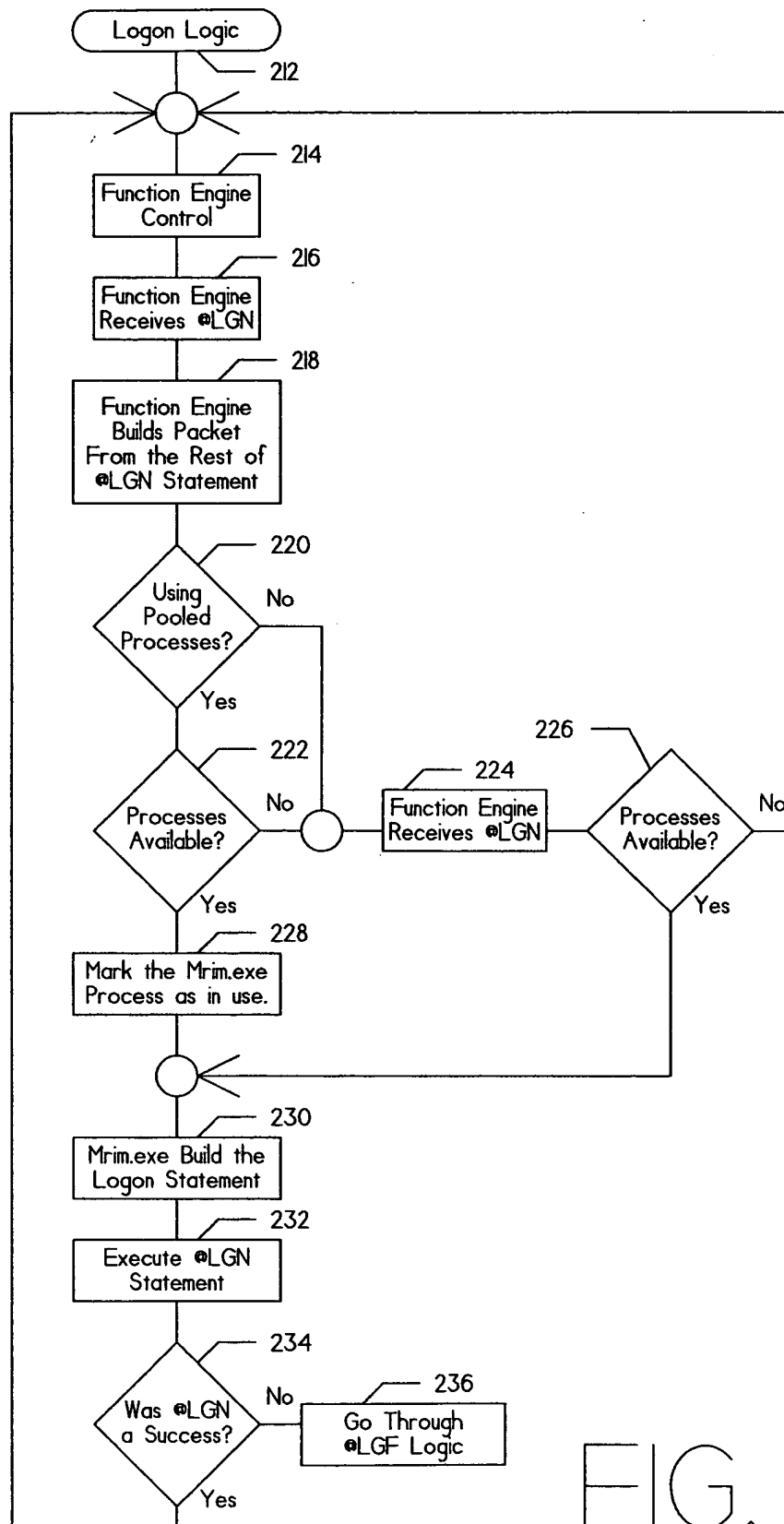


FIG. 5

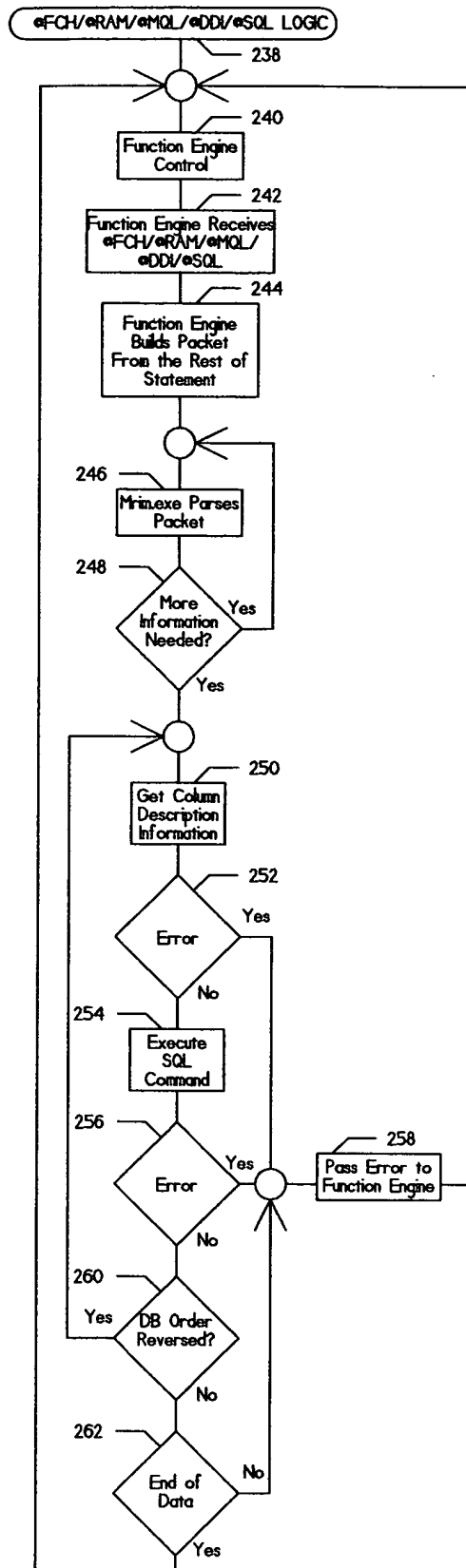


FIG. 6

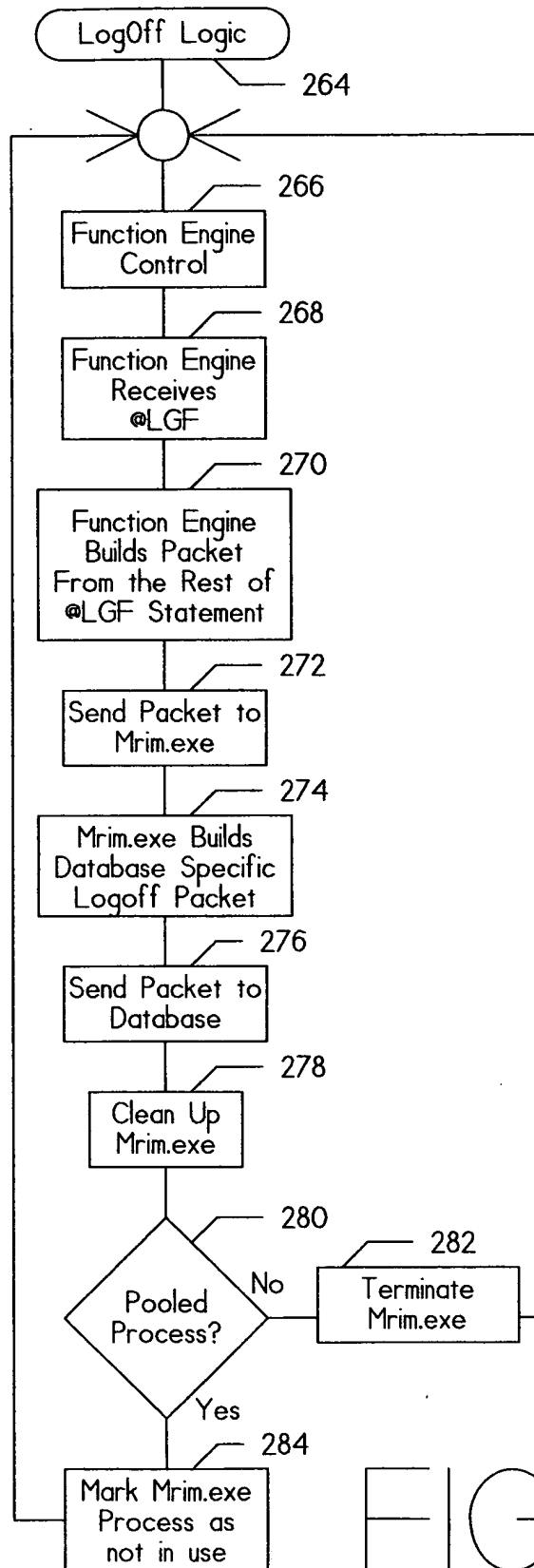
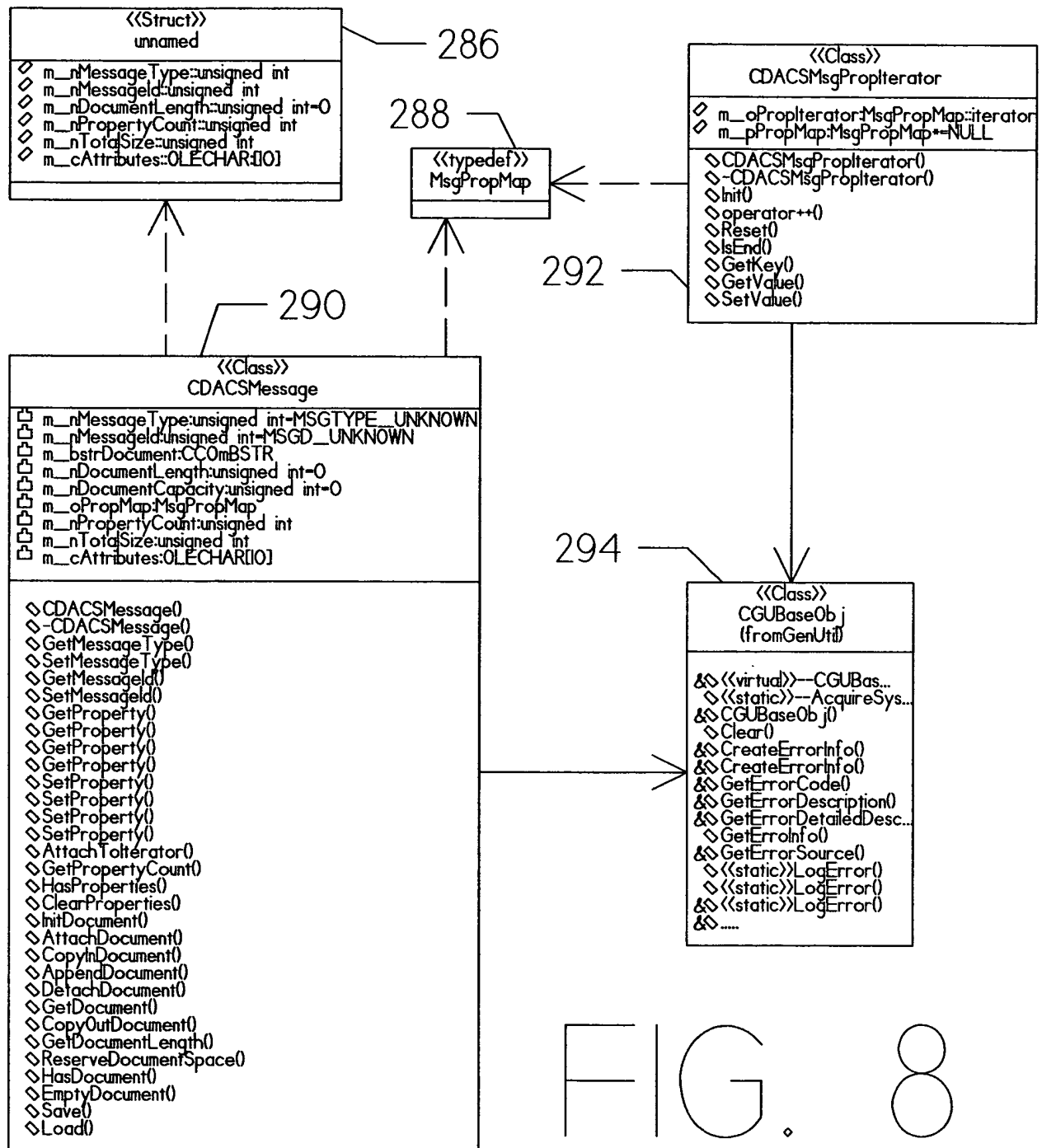


FIG. 7



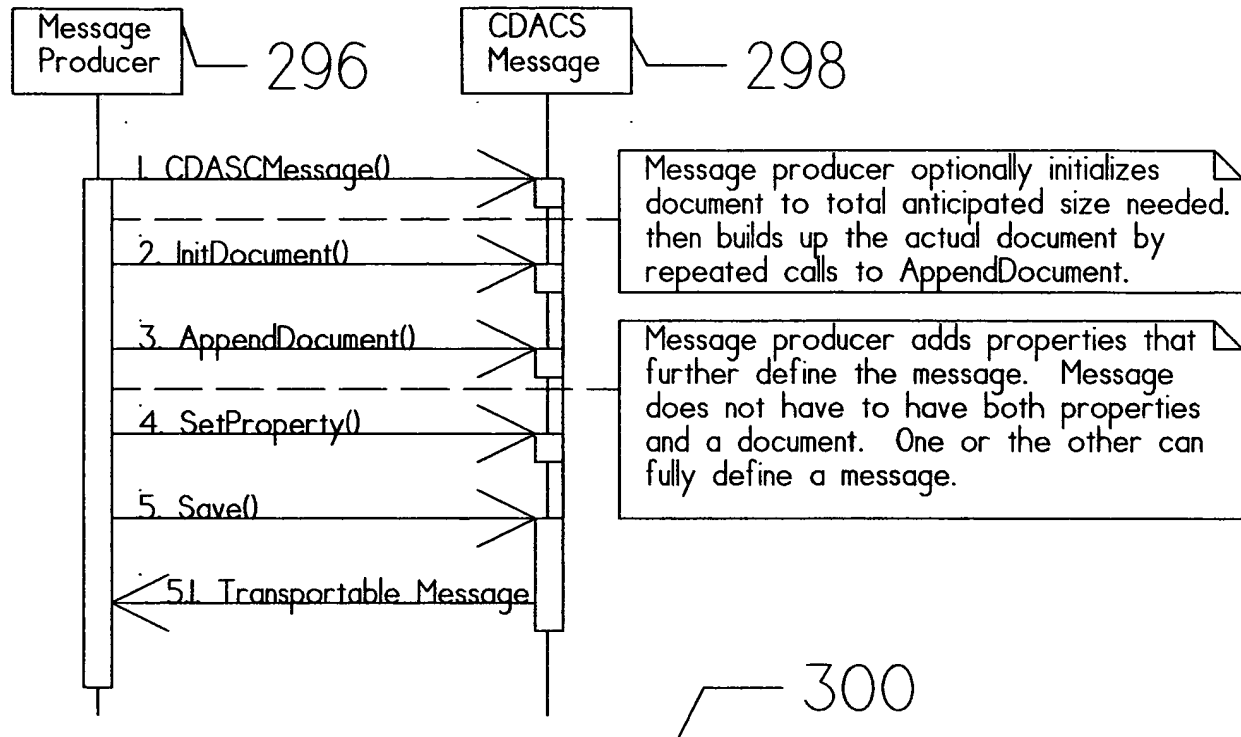


InitDocument	Initially allocates a buffer of a given size for m_bstrDocument, but sets the length to zero.
AttachDocument	Attaches a BSTR to the CDACSMesage object as the header.
CopyInDocument	Copies a provided BSTR to m_bstrDocument. Similar to operator = for CComBSTR.
AppendDocument	Appends a BSTR to m_bstrDocument.
DetachDocument	Detaches m_bstrDocument from the CDACSMesage object.
GetDocument	Returns m_bstrDocument. Similar to operator BSTR for CComBSR.
CopyOutDocument	Returns a copy of m_bstrDocument.
HasDocument	Returns TRUE if length of m_bstrDocument is not zero. Compare to operator ! for CComBSTR.
GetDocument- Length	Returns the length in characters of m_bstrDocument.
ReserveDocument- Space	Allocates space for the document buffer. Makes multiple AppendDocument calls more efficient.
SetDocument- Length	Sets the length in characters of m_bstrDocument.
EmptyDocument	Frees m_bstrDocument.

FIG. 9

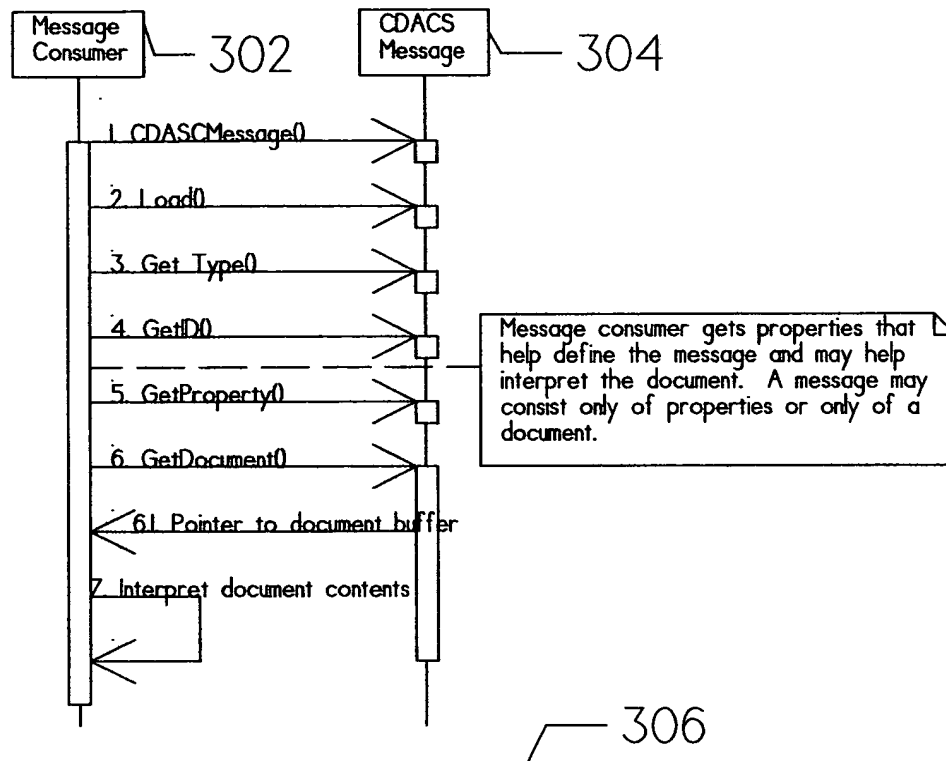
AttachToIterator	Initializes the given CDACSMsgPropIterator object to access the property map of this.
GetProperty	Gets a copy of the property value. Overloaded for integer, bool, CComBSTR, or CComVariant.
SetProperty	Sets the property value to a copy of the input.
SetPropertyCount	Returns the number of properties.
HasProperties	True if the message has at least one property.
ClearProperties	Deletes all the properties.
CopyOutDocument	Returns a copy of m_bstrDocument.

FIG. 10



Message #	Description
1	Constructs the message object. Property list and document initially empty. Message Type and ID constructed as in declaration.
2	Reserve space for the document. with the initial length set to zero.
3	Add a character string to the document. Repeat until done.
4	Add a property to the message. Repeat until done.
5	Package the entire message object into a single BSTR. wrapped in the caller's CComVariant parameter.
5.I	The transportable data is attached to the caller's CComVariant parameter.

FIG. II



Message #	Description
1	Document and property list initially empty. Initial message type and id will be overridden in the next step.
2	Copy data from the received VARIANT data to the CDACSMessage object.
3	Get the message type property.
4	Get the message id property.
5	Get a specific message property. Repeat as needed. Alternatively, the message consumer can retrieve all the properties in a loop.
6	Get a pointer to the document buffer. Alternatively, the message consumer could use DetachDocument to take responsibility for the buffer.
6.l	
7	Document is an optional attachment that contains message data in some format such as XML. Semantics are defined by the consumer.

FIG. 12